

HeLa-Luc | 305664

General information

Description	HeLa-Luc is a cell line derived from HeLa cells, which are a type of epithelial cell from the cervix. The cells are immortalized and express luciferase (Luc) under the control of the CMV promoter. The cells are used for studying gene expression and protein function in a cell-based system.
Organism	Human
Tissue	Epithelial, Cervix
Disease	HeLa cells are a type of epithelial cell from the cervix, which is a type of cancer. The cells are immortalized and express luciferase (Luc) under the control of the CMV promoter.

Characteristics

Age	30.5 years
Gender	Female
Ethnicity	Chinese
Morphology	Epithelial
Growth properties	Adherent

Documentation

Citation	HeLa-Luc (Cytion 305664)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_YA88
GMO Status	GMO-S1: HeLa-Luc (Cytion 305664) (Luc2, CMV promoter) is a genetically modified organism (GMO) derived from HeLa cells.

Additional information

Product sheet

HeLa-Luc | 305664

Protein expression	
Antigen expression	Luc2 (,)
Isoenzymes	G6PD, A
Virus susceptibility	1, 2, 3, (), , 5
Reverse transcriptase	
Products	
Culture Medium	EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO ₃ , w: EBSS (Cytion 820100a)
Supplements	10% FBS -1% NEAA
Dissociation Reagent	
Seeding density	1 x 10 ⁴ /
Fluid renewal	2 x 3
Freeze medium	+ 10% DMSO

HeLa-Luc | 305664

**Thawing and
Culturing Cells**

1. **Thawing:** Thaw the vial immediately in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
2. **Seeding:** Seed the cells into a 24-well plate at a density of 1×10^5 cells per well. Incubate at 37°C, 5% CO₂.
3. **Medium Change:** After 24 hours, replace the medium with fresh pre-warmed medium.
4. **Confluency:** Monitor the cells for confluency. Once they reach 70-80% confluency, they are ready for use.
5. **Passaging:** To passage the cells, trypsinize them and seed them into a new plate at a density of 1×10^5 cells per well.
6. **Storage:** Cells can be stored in liquid nitrogen for long-term storage.
7. **Quality Control:** Perform regular quality control checks to ensure cell viability and purity.

**Incubation
Atmosphere**

37°C, 5% CO₂, humidified

**Shipping
Conditions**

Cells are shipped in a dry ice container, maintaining a temperature of -78°C.

**Storage
Conditions**

Cells can be stored in liquid nitrogen for long-term storage.

HeLa-Luc | 305664